

INTRODUCTION

The fact sheets in this document summarize the basic 2001 Toxics Release Inventory (TRI) data for each state. This document serves as a companion volume to EPA's *2001 Toxics Release Inventory Public Data Release Report* (EPA 260-R-03-001), a more detailed examination of TRI data for 2001 and previous years.

The TRI is a publicly available database containing information about releases and other waste management of toxic chemicals reported by industrial facilities. The TRI was established by section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986. The Community Right-to-Know provisions of EPCRA are intended to provide information to the public about the presence and release of toxic chemicals in their communities. Following passage of the Pollution Prevention Act of 1990, the TRI was expanded to include reporting of additional waste management and pollution prevention activities.

For the reporting year 2000, TRI was expanded to include new persistent bioaccumulative toxic (PBT) chemicals. In addition, reporting thresholds were lowered for both the newly added PBT chemicals and certain PBT chemicals already on the TRI list. In the rule (64 FR 58666) finalized on October 29, 1999, EPA added six PBT chemicals and one PBT chemical compounds category. Two of the chemicals were added to the Polycyclic Aromatic Compounds (PACs) category. The rule also lowered the reporting threshold for 15 PBT chemicals and three PBT chemical categories.

For the reporting year 2001, the reporting thresholds for the PBT chemicals lead and lead compounds were lowered in a rule finalized on January 17, 2001 (66 FR 4500). The lower reporting threshold and requirements for lead and lead compounds are effective for the 2001 reporting year and applies to all lead and lead compounds except for lead when it is contained in stainless steel, brass, or bronze alloys. Chapter 3 of the companion volume

2001 Toxics Release Inventory Public Data Release Report (EPA 260-R-03-001) presents detailed information and TRI data for the PBT chemicals.

In a separate action, as part of the rulemaking for the 2000 reporting year, EPA added vanadium compounds to the list of TRI chemicals and changed the reporting qualifier for vanadium (already on the list of TRI chemicals) from "fume or dust" to "except when contained in an alloy." Vanadium and vanadium compounds have not been classified as PBT chemicals.

Facilities in the manufacturing sector (Standard Industrial Classification codes 20 through 39) have been required to report to TRI since its inception. Beginning with reporting year 1994, federal facilities have also been required to report to TRI. Reporting year 1998 was the first year of reporting by seven additional industries:

- Metal mining (SIC code 10, except 1011, 1081, and 1094),
- Coal mining (SIC code 12, except 1241),
- Electrical utilities that combust coal and/or oil (SIC codes 4911, 4931, and 4939),
- RCRA subtitle C hazardous waste treatment and disposal facilities (in SIC code 4953),
- Chemical wholesale distributors (SIC code 5169),
- Petroleum terminals and bulk storage stations (SIC code 5171), and
- Solvent recovery services (SIC code 7389).

In the TRI public data release materials, including this volume, data submitted by two of these industries — solvent recovery services and RCRA subtitle C hazardous waste treatment and disposal facilities — are analyzed together.



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By July 1 each year, facilities must report their estimated amounts of releases and other quantities of toxic chemicals managed as waste for the preceding calendar year. Facilities provide this information to EPA and to the state in which they are located. For 2001, 24,896 facilities filed 95,513 individual chemical reporting forms. After completion of data entry and data quality assurance activities, EPA makes these data available to the public through on-line databases and a variety of other means, including this report.

For further information about TRI and for assistance in obtaining TRI documents, contact the EPCRA Information Hotline at 1-800-424-9346. For assistance in obtaining access to the data, contact the TRI User Support Service at (202) 566-0250 or via e-mail at tri.us@epa.gov. For further information about individual state TRI programs, contact the state TRI coordinator listed at the bottom of the fact sheet for that state.

TRI DATA BY STATE: OVERVIEW

Tables on the following pages summarize 2001 TRI reporting by state. For 2001, individual tables rank states and summarize their data for:

- **on- and off-site releases** (includes transfers out-of-state for disposal and excludes transfers to disposal sent to other TRI facilities that reported the amount as an on-site release),
- **on-site releases** (includes amounts released at the facility; excludes amounts transferred to other sites for disposal),
- **releases within each state** (includes off-site releases sent into the state by facilities in other locations, excludes transfers out-of-state for disposal, and excludes transfers to disposal sent to other TRI facilities that reported the amount as an on-site release),
- **transfers for further waste management, including disposal** — sent to recycling, energy

recovery, treatment, and Publicly Owned Treatment Works (POTWs) or for disposal (excluding metals sent to POTWs), and

- **transfers of metals** (and their category compounds) and non-metals to POTWs.

Additional tables summarize on-site and off-site releases for the years 1998-2001, as well for the time period 1988-2001. Tables 6 through 9 present 1998-2001 data for the subset of chemicals that do not include persistent bioaccumulative toxic (PBT) chemicals and vanadium and vanadium compounds. The reporting thresholds for PBT chemicals on the TRI chemical list prior to 2000 have been lowered and the reporting definition for vanadium was changed. Other PBT chemicals were added to the TRI chemical list at the lowered threshold. In addition, vanadium compounds were also added. Therefore, amounts reported for 2000 and 2001 for these chemicals are not comparable to amounts reported in prior years.

The final table provides totals for on- and off-site releases for 1988 and 1998-2001. This last table does not include data on chemicals whose reporting requirements have changed during the period 1988 through 2000. Therefore, it does not include delisted chemicals, chemicals added in 1990, 1991, 1994 and 1995, aluminum oxide, ammonia, hydrochloric acid, sulfuric acid, PBT chemicals, vanadium and vanadium compounds.

The following section, "Description of the Fact Sheets," explains data provided in these summary tables as well as in the individual state fact sheets.

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DESCRIPTION OF THE FACT SHEETS

Each four-page state fact sheet provides the following:

State Summary Data (First Page for Each State)

- **Reported Releases and Other Waste Management Activities:**

- **On- and Off-site Releases:** The amounts of toxic chemicals released to air, water, land, injected into underground wells (on-site releases) at reporting facilities within the state, and the amounts of toxic chemicals transferred off-site to disposal (off-site releases) by reporting facilities within the state. Off-site releases include transfers to disposal of all TRI chemicals plus transfers of metals and metal category compounds to solidification/stabilization, to wastewater treatment (excluding POTWs), and to POTWs because they are ultimately disposed. Off-site transfer data exclude amounts sent for disposal to other TRI facilities that report those amounts as on-site releases.
- **Waste Management:** Quantities of TRI chemicals in production-related waste managed by reporting facilities, including recycling, energy recovery, and treatment on-site and off-site, as well as the quantity released on- and off-site. Non-production related waste managed includes quantities released as the result of one-time events, for example, remedial activities or catastrophic events.
- **Transfers Off-site for Further Waste Management, including Disposal:** Amounts of TRI chemicals sent off-site for further waste management —recycling, energy recovery, treatment, POTWs, or for disposal (off-site releases). For amounts transferred to POTWs, metals and metal category compounds are identified separately from non-metals.
- **State map** with circles marking the location of each facility reporting to the TRI in 2001. Circles are proportionally sized to represent each facility's total on-site releases.
- **Population and area** of the state, the **number of facilities** reporting to TRI from the state, and the **number of forms** submitted by those facilities. Population statistics for the 50 states and the District of Columbia are 2001 U.S. Census estimates as of July 1, 2001. The population statistics for American Samoa, Guam, the Northern Marianas, Puerto Rico, and the Virgin Islands are from the 2000 U.S. Census as of April 1, 2000.
- The state's **national rank** (and pounds) for total on- and off-site releases (includes transfers out-of-state for disposal and excludes transfer amounts sent to other TRI facilities reporting that amount as on-site releases), for total on-site releases (includes amounts released at the facility; excludes amounts transferred to other sites), for total releases within the state (includes off-site releases sent into the state by facilities in other locations, excludes transfers out-of-state for disposal and transfers to other TRI facilities in the state reporting that amount as on-site releases), and for total production-related waste managed.
- **Contact** names, telephone numbers, fax numbers and e-mail addresses for the state TRI coordinator and for the EPA TRI coordinator for the region in which the state is located.



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Total On- and Off-site Releases is not the same as Quantity Released On- and Off-site. These *State Fact Sheets* present these amounts on the first page for each state. Facilities are also ranked separately in each state for both of these measures of releases.

The difference between these amounts arises primarily from the types of releases reported on different sections of the Form R. Total On- and Off-site Releases reflects all on-site releases collected in Section 5 of Form R plus off-site releases (transfers off-site for disposal) reported in Section 6 (including metals and metal category compounds transferred to solidification/stabilization and to wastewater treatment, including POTWs). The Quantity Released On- and Off-site is reported in Section 8.1 of Form R. This quantity reflects production-related releases and excludes releases associated with catastrophic events, remedial actions, and other one-time events not related to production.

Other reasons also contribute to the different quantities reported in different sections of the Form R. For example, a release or transfer of less than 1,000 pounds may be reported in ranges in Section 5 and 6 whereas an exact amount must be included in Section 8.

In 2001, some facilities reported transfers of metals and metal category compounds to solidification/stabilization and to wastewater treatment (excluding POTWs) using incorrect disposal codes in Section 6 of Form R (codes M40 and M61). For the *2001 TRI Public Data Release Report* and the *2001 State Fact Sheets*, off-site releases include these amounts. These facilities may have reported these transfers in Section 8 as treated off-site rather than incorporating the amounts into Quantity Released On- and Off-site. Because of the differences between Section 6 and Section 8 reporting, EPA cannot correct these Section 8 quantities.

Chemicals and Facilities with the Largest Amounts (Second through Fourth Pages for Each State)

Chemicals and facilities are ranked separately for all chemicals and for persistent bioaccumulative toxic (PBT) chemicals. PBT chemicals on the TRI chemical list prior to the 2000 reporting year have had their reporting threshold lowered while other PBT chemicals were added to the TRI list for 2000.

- The **5 chemicals released in the state in the largest amounts** (including transfers into the state for disposal and excluding transfers out-of-state for disposal, as well as transfers within the state to other TRI facilities reporting that amount as on-site releases). Ranking of chemicals includes on-site releases reported in Section 5 of TRI's Form R and off-site releases (reported in Section 6 of TRI's Form R, including transfers of metals and metal category compounds to solidification/stabilization and to wastewater treatment including POTWs). Data on all transfers into, within, and out of the state are also presented.
- **Releases of each PBT chemical** (including transfers into the state for disposal and excluding transfers out-of-state for disposal, as well as transfers within the state to other TRI facilities reporting that amount as on-site releases). The

PBT chemicals are ranked based on on-site releases reported in Section 5 of TRI's Form R and off-site releases (reported in Section 6 of TRI's Form R, including transfers of metals and metal category compounds to solidification/stabilization and to wastewater treatment including POTWs). Data on all transfers into, within, and out of the state are also presented.

- **The 10 facilities reporting the largest amounts of total on-site releases of all TRI chemicals and of all PBT chemicals.** On-site releases are reported in Section 5 of TRI's Form R. Ranking of these facilities excludes amounts transferred off-site for disposal, although information on transfers within the state and out of state (reported in Section 6 of TRI's Form R) is provided.
- **The 10 facilities reporting the largest total quantities released on- and off-site of all TRI chemicals and of all PBT chemicals.** Quantities released on- and off-site are reported in Section 8.1 of TRI's Form R. These tables supply data for all categories of production-related waste managed and for non-production-related waste managed.

2001 Toxics Release Inventory



Table 1. TRI On-site and Off-site Releases by State, 2001 (Ordered by Total Releases)

State	On-site Releases				Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Nevada	2,728,933	82,849	785	778,244,135	781,056,702	2,437,928	783,494,630
Utah	19,220,667	1,215,070	0	745,779,296	766,215,034	982,691	767,197,725
Arizona	4,600,105	6,376	0	601,486,064	606,092,545	721,776	606,814,321
Alaska	3,201,013	76,438	20,554,878	498,234,331	522,066,660	6,071	522,072,731
Texas	102,748,862	26,007,896	77,648,759	29,851,396	236,256,913	34,278,163	270,535,075
Ohio	121,295,468	8,339,219	31,993,954	35,850,918	197,479,559	57,084,073	254,563,636
Pennsylvania	89,034,059	18,741,435	0	11,527,784	119,303,278	88,180,766	207,484,044
Indiana	77,828,675	20,104,003	1,074,724	30,081,820	129,089,222	76,468,560	205,557,782
Tennessee	79,573,558	3,067,358	5	59,302,596	141,943,517	7,017,705	148,961,221
North Carolina	115,130,332	9,887,436	0	12,416,089	137,433,858	10,234,240	147,668,098
Louisiana	75,960,815	11,908,380	37,112,860	15,647,195	140,629,250	5,191,651	145,820,901
Illinois	59,411,352	8,087,041	2,499	44,751,553	112,252,445	25,496,565	137,749,010
Alabama	75,567,809	4,713,394	92,912	41,777,031	122,151,146	12,294,431	134,445,577
Michigan	56,656,492	1,043,401	2,509,570	22,263,032	82,472,496	49,444,297	131,916,793
Florida	83,429,911	1,590,342	23,797,105	9,604,573	118,421,931	4,780,008	123,201,939
Missouri	34,177,643	1,660,217	0	76,850,719	112,688,579	7,201,119	119,889,698
Georgia	91,834,154	8,391,937	0	13,633,609	113,859,700	2,659,943	116,519,643
New Mexico	1,072,357	40,023	37,389	102,121,661	103,271,430	2,561,720	105,833,149
Kentucky	58,703,794	2,118,567	54,425	21,104,169	81,980,954	11,714,700	93,695,654
South Carolina	54,977,393	2,778,925	0	5,316,428	63,072,746	18,188,165	81,260,912
West Virginia	59,430,131	3,788,537	14,397	11,490,586	74,723,651	5,416,357	80,140,007
Virginia	57,216,768	6,963,083	5	6,435,705	70,615,561	9,168,292	79,783,853
Idaho	5,000,464	5,821,110	0	62,997,401	73,818,976	1,362,893	75,181,868
Mississippi	37,063,726	12,964,677	11,046,901	8,119,843	69,195,147	1,891,154	71,086,301
Montana	4,292,997	48,785	369,092	58,033,205	62,744,079	2,644,099	65,388,178
New Jersey	13,809,784	3,729,623	6	314,617	17,854,029	40,987,748	58,841,777
California	20,020,008	4,924,819	55,902	28,081,312	53,082,041	5,467,403	58,549,443
Wisconsin	25,139,472	4,033,349	0	2,914,645	32,087,466	14,721,061	46,808,527
Maryland	36,076,213	3,839,690	56,057	2,806,914	42,778,874	2,645,338	45,424,212
New York	29,629,649	6,733,053	1	3,406,178	39,768,882	5,062,168	44,831,050
Arkansas	20,036,562	3,190,528	1,586,234	6,643,857	31,457,181	12,585,384	44,042,566
Iowa	24,332,303	3,145,360	0	5,522,522	33,000,185	4,873,295	37,873,480
Oregon	12,914,088	2,912,278	0	20,601,922	36,428,289	1,148,229	37,576,517
Colorado	3,629,554	3,752,564	0	24,067,889	31,450,008	5,596,405	37,046,413
Minnesota	14,252,131	1,571,683	0	9,696,625	25,520,439	7,874,871	33,395,310
Kansas	14,768,804	1,149,296	559,221	8,381,934	24,859,255	6,807,335	31,666,590
Oklahoma	17,377,943	2,391,127	4,828	5,494,846	25,268,743	3,618,278	28,887,021
Nebraska	7,875,435	9,601,101	0	6,383,985	23,860,521	2,808,896	26,669,417
North Dakota	4,328,230	110,470	0	12,303,643	16,742,343	8,534,710	25,277,053
Washington	14,295,076	2,123,223	6	5,102,902	21,521,207	2,371,067	23,892,274
Wyoming	1,817,602	11,395	6,145,000	8,715,656	16,689,653	902,273	17,591,926
Puerto Rico	14,556,276	35,624	0	13,914	14,605,814	1,000,785	15,606,599
South Dakota	1,799,135	2,413,621	704,700	8,532,758	13,450,214	77,038	13,527,252
Delaware	6,651,525	573,937	0	965,666	8,191,129	3,883,235	12,074,363
Massachusetts	7,447,906	73,437	0	826,237	8,347,581	2,738,148	11,085,729
Maine	4,657,404	3,975,970	0	725,873	9,359,246	1,353,438	10,712,685
Connecticut	4,821,957	785,064	0	2,462	5,609,483	4,145,809	9,755,293
New Hampshire	4,496,284	10,675	0	10,088	4,517,047	241,606	4,758,653
Hawaii	2,379,957	29,770	2,071	224,400	2,636,198	430,339	3,066,537
Rhode Island	824,582	10,171	0	358	835,111	262,989	1,098,100
Virgin Islands	892,660	132,256	0	7,283	1,032,199	6,419	1,038,618
Vermont	136,536	75,573	0	433	212,542	150,460	363,002
Guam	192,898	17	0	5,545	198,460	23	198,483
District of Columbia	40,733	13,943	0	4,927	59,603	970	60,573
Northern Marianas	7,953	0	0	2	7,955	0	7,955
American Samoa	6,920	0	0	0	6,920	0	6,920
Total	1,679,373,058	220,796,115	215,424,286	3,464,680,533	5,580,273,993	577,723,085	6,157,997,078

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.



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Table 2. TRI On-site Releases by State, 2001 (Ordered by Total On-site Releases)

State	On-site Releases				Total On-site Releases Pounds
	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds	
Nevada	2,728,933	82,849	785	778,244,135	781,056,702
Utah	19,220,667	1,215,070	0	745,779,296	766,215,034
Arizona	4,600,105	6,376	0	601,486,064	606,092,545
Alaska	3,201,013	76,438	20,554,878	498,234,331	522,066,660
Texas	102,748,862	26,007,896	77,648,759	29,851,396	236,256,913
Ohio	121,295,468	8,339,219	31,993,954	35,850,918	197,479,559
Tennessee	79,573,558	3,067,358	5	59,302,596	141,943,517
Louisiana	75,960,815	11,908,380	37,112,860	15,647,195	140,629,250
North Carolina	115,130,332	9,887,436	0	12,416,089	137,433,858
Indiana	77,828,675	20,104,003	1,074,724	30,081,820	129,089,222
Alabama	75,567,809	4,713,394	92,912	41,777,031	122,151,146
Pennsylvania	89,034,059	18,741,435	0	11,527,784	119,303,278
Florida	83,429,911	1,590,342	23,797,105	9,604,573	118,421,931
Georgia	91,834,154	8,391,937	0	13,633,609	113,859,700
Missouri	34,177,643	1,660,217	0	76,850,719	112,688,579
Illinois	59,411,352	8,087,041	2,499	44,751,553	112,252,445
New Mexico	1,072,357	40,023	37,389	102,121,661	103,271,430
Michigan	56,656,492	1,043,401	2,509,570	22,263,032	82,472,496
Kentucky	58,703,794	2,118,567	54,425	21,104,169	81,980,954
West Virginia	59,430,131	3,788,537	14,397	11,490,586	74,723,651
Idaho	5,000,464	5,821,110	0	62,997,401	73,818,976
Virginia	57,216,768	6,963,083	5	6,435,705	70,615,561
Mississippi	37,063,726	12,964,677	11,046,901	8,119,843	69,195,147
South Carolina	54,977,393	2,778,925	0	5,316,428	63,072,746
Montana	4,292,997	48,785	369,092	58,033,205	62,744,079
California	20,020,008	4,924,819	55,902	28,081,312	53,082,041
Maryland	36,076,213	3,839,690	56,057	2,806,914	42,778,874
New York	29,629,649	6,733,053	1	3,406,178	39,768,882
Oregon	12,914,088	2,912,278	0	20,601,922	36,428,289
Iowa	24,332,303	3,145,360	0	5,522,522	33,000,185
Wisconsin	25,139,472	4,033,349	0	2,914,645	32,087,466
Arkansas	20,036,562	3,190,528	1,586,234	6,643,857	31,457,181
Colorado	3,629,554	3,752,564	0	24,067,889	31,450,008
Minnesota	14,252,131	1,571,683	0	9,696,625	25,520,439
Oklahoma	17,377,943	2,391,127	4,828	5,494,846	25,268,743
Kansas	14,768,804	1,149,296	559,221	8,381,934	24,859,255
Nebraska	7,875,435	9,601,101	0	6,383,985	23,860,521
Washington	14,295,076	2,123,223	6	5,102,902	21,521,207
New Jersey	13,809,784	3,729,623	6	314,617	17,854,029
North Dakota	4,328,230	110,470	0	12,303,643	16,742,343
Wyoming	1,817,602	11,395	6,145,000	8,715,656	16,689,653
Puerto Rico	14,556,276	35,624	0	13,914	14,605,814
South Dakota	1,799,135	2,413,621	704,700	8,532,758	13,450,214
Maine	4,657,404	3,975,970	0	725,873	9,359,246
Massachusetts	7,447,906	73,437	0	826,237	8,347,581
Delaware	6,651,525	573,937	0	965,666	8,191,129
Connecticut	4,821,957	785,064	0	2,462	5,609,483
New Hampshire	4,496,284	10,675	0	10,088	4,517,047
Hawaii	2,379,957	29,770	2,071	224,400	2,636,198
Virgin Islands	892,660	132,256	0	7,283	1,032,199
Rhode Island	824,582	10,171	0	358	835,111
Vermont	136,536	75,573	0	433	212,542
Guam	192,898	17	0	5,545	198,460
District of Columbia	40,733	13,943	0	4,927	59,603
Northern Marianas	7,953	0	0	2	7,955
American Samoa	6,920	0	0	0	6,920
Total	1,679,373,058	220,796,115	215,424,286	3,464,680,533	5,580,273,993

Note: On-site Releases are from Section 5 of Form R.

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Table 3. TRI Releases Within the State, 2001 (Ordered by Total Releases Within the State)

State	On-site Releases				Total On-site Releases Pounds	Off-site Releases (Transfers Off-site to Disposal)*		Total Releases Within the State Pounds
	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transferred Into State Pounds	Transferred Within State Pounds	
Nevada	2,728,933	82,849	785	778,244,135	781,056,702	1,037,405	2,427,629	784,521,736
Utah	19,220,667	1,215,070	0	745,779,296	766,215,034	2,492,915	846,239	769,554,188
Arizona	4,600,105	6,376	0	601,486,064	606,092,545	1,036,115	475,035	607,603,696
Alaska	3,201,013	76,438	20,554,878	498,234,331	522,066,660	29	5,963	522,072,652
Ohio	121,295,468	8,339,219	31,993,954	35,850,918	197,479,559	96,944,360	54,364,789	348,788,707
Texas	102,748,862	26,007,896	77,648,759	29,851,396	236,256,913	4,968,850	30,760,800	271,986,562
Pennsylvania	89,034,059	18,741,435	0	11,527,784	119,303,278	18,067,664	59,342,809	196,713,752
Indiana	77,828,675	20,104,003	1,074,724	30,081,820	129,089,222	6,815,269	50,391,502	186,295,993
Illinois	59,411,352	8,087,041	2,499	44,751,553	112,252,445	21,174,122	29,749,189	163,175,756
Louisiana	75,960,815	11,908,380	37,112,860	15,647,195	140,629,250	7,844,437	4,374,802	152,848,490
Tennessee	79,573,558	3,067,358	5	59,302,596	141,943,517	537,272	5,180,893	147,661,681
Michigan	56,656,492	1,043,401	2,509,570	22,263,032	82,472,496	13,514,254	48,838,380	144,825,129
North Carolina	115,130,332	9,887,436	0	12,416,089	137,433,858	486,899	6,411,092	144,331,848
Alabama	75,567,809	4,713,394	92,912	41,777,031	122,151,146	2,803,615	7,467,788	132,422,549
Florida	83,429,911	1,590,342	23,797,105	9,604,573	118,421,931	125,477	3,775,961	122,323,369
Missouri	34,177,643	1,660,217	0	76,850,719	112,688,579	1,197,907	5,837,722	119,724,208
Georgia	91,834,154	8,391,937	0	13,633,609	113,859,700	932,611	1,657,810	116,450,120
New Mexico	1,072,357	40,023	37,389	102,121,661	103,271,430	112,333	4,795,243	108,179,006
Idaho	5,000,464	5,821,110	0	62,997,401	73,818,976	30,182,292	1,165,254	105,166,521
Kentucky	58,703,794	2,118,567	54,425	21,104,169	81,980,954	1,567,253	4,129,250	87,677,456
West Virginia	59,430,131	3,788,537	14,397	11,490,586	74,723,651	871,106	4,230,329	79,825,086
Virginia	57,216,768	6,963,083	5	6,435,705	70,615,561	296,643	7,151,710	78,063,914
Mississippi	37,063,726	12,964,677	11,046,901	8,119,843	69,195,147	207,475	1,170,800	70,573,422
South Carolina	54,977,393	2,778,925	0	5,316,428	63,072,746	1,863,204	3,018,124	67,954,074
Montana	4,292,997	48,785	369,092	58,033,205	62,744,079	162,151	601,734	63,507,964
California	20,020,008	4,924,819	55,902	28,081,312	53,082,041	80,687	4,915,119	58,077,847
New Jersey	13,809,784	3,729,623	6	314,617	17,854,029	852,467	30,553,370	49,259,866
Wisconsin	25,139,472	4,033,349	0	2,914,645	32,087,466	4,126,162	12,749,650	48,963,278
Maryland	36,076,213	3,839,690	56,057	2,806,914	42,778,874	753,084	2,193,076	45,725,034
New York	29,629,649	6,733,053	1	3,406,178	39,768,882	1,466,930	3,477,794	44,713,606
Oregon	12,914,088	2,912,278	0	20,601,922	36,428,289	862,353	689,758	37,980,401
Colorado	3,629,554	3,752,564	0	24,067,889	31,450,008	16,568	5,935,025	37,401,602
Iowa	24,332,303	3,145,360	0	5,522,522	33,000,185	52,348	2,558,585	35,611,118
Arkansas	20,036,562	3,190,528	1,586,234	6,643,857	31,457,181	1,395,050	864,594	33,716,826
Oklahoma	17,377,943	2,391,127	4,828	5,494,846	25,268,743	6,245,095	1,508,354	33,022,192
Minnesota	14,252,131	1,571,683	0	9,696,625	25,520,439	95,710	2,744,307	28,360,456
Kansas	14,768,804	1,149,296	559,221	8,381,934	24,859,255	422,352	852,130	26,133,737
Nebraska	7,875,435	9,601,101	0	6,383,985	23,860,521	437,248	1,696,342	25,994,111
North Dakota	4,328,230	110,470	0	12,303,643	16,742,343	4	9,221,626	25,963,973
Washington	14,295,076	2,123,223	6	5,102,902	21,521,207	46,531	1,777,205	23,344,943
Wyoming	1,817,602	11,395	6,145,000	8,715,656	16,689,653	2	893,436	17,583,090
Puerto Rico	14,556,276	35,624	0	13,914	14,605,814	250	634,005	15,240,069
South Dakota	1,799,135	2,413,621	704,700	8,532,758	13,450,214	897	75,504	13,526,614
Maine	4,657,404	3,975,970	0	725,873	9,359,246	371,079	1,224,243	10,954,569
Delaware	6,651,525	573,937	0	965,666	8,191,129	61,577	2,377,714	10,630,420
Massachusetts	7,447,906	73,437	0	826,237	8,347,581	579,208	1,354,190	10,280,979
Connecticut	4,821,957	785,064	0	2,462	5,609,483	169,328	347,534	6,126,345
New Hampshire	4,496,284	10,675	0	10,088	4,517,047	563,538	84,801	5,165,386
Hawaii	2,379,957	29,770	2,071	224,400	2,636,198	0	428,661	3,064,859
Virgin Islands	892,660	132,256	0	7,283	1,032,199	0	0	1,032,199
Rhode Island	824,582	10,171	0	358	835,111	96,561	49,075	980,748
Vermont	136,536	75,573	0	433	212,542	10,366	58,450	281,359
Guam	192,898	17	0	5,545	198,460	0	0	198,460
District of Columbia	40,733	13,943	0	4,927	59,603	325	0	59,928
Northern Marianas	7,953	0	0	2	7,955	0	0	7,955
American Samoa	6,920	0	0	0	6,920	0	0	6,920
Other**	0	0	0	0	0	5,167,584	0	5,167,584
Total	1,679,373,058	220,796,115	215,424,286	3,464,680,533	5,580,273,993	239,114,964	427,435,396	6,246,824,354

Note: On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.

** "Other" includes waste sent to other countries, to sites not identified by the reporting facility and transfers to POTWs in more than one state.



2001 Toxics Release Inventory

Table 4. TRI Transfers for Further Waste Management, including Disposal, by State, 2001 (Ordered by Total Transfers)

State	Transfers to Recycling Pounds	Transfers to Energy Recovery Pounds	Transfers to Treatment Pounds	Transfers to POTW's		Other Off-site Transfers* Pounds	Off-site Transfers to Disposal** Pounds	Total Transfers for Further Waste Management/ Disposal Pounds
				Metals and Metal Compounds Pounds	Non-metal TRI Chemicals Pounds			
Texas	136,898,041	143,041,520	56,643,370	40,347	37,128,637	41,322	35,821,346	409,614,582
Michigan	89,316,418	199,798,707	19,660,736	247,148	15,420,424	17,068	49,593,734	374,054,235
Ohio	168,188,958	40,248,568	17,347,997	188,609	18,415,413	2,144	65,298,072	309,689,761
Pennsylvania	154,702,943	17,241,863	14,364,889	70,521	7,381,449	2,186	89,713,380	283,477,232
Indiana	162,169,438	14,016,355	5,313,584	81,711	8,359,764	58,057	81,177,642	271,176,552
Illinois	104,698,361	29,281,969	9,009,121	169,585	9,779,952	111,995	35,614,281	188,665,264
New Jersey	25,083,507	55,971,254	10,050,970	37,535	29,062,310	20,818	41,095,118	161,321,511
South Carolina	77,339,641	31,987,806	4,809,405	56,904	5,079,704	45,740	21,230,981	140,550,181
California	72,771,483	25,168,116	4,920,741	64,755	24,157,493	124,776	7,764,935	134,972,300
Arkansas	58,379,594	43,821,142	3,550,073	14,314	1,586,498	34,000	20,028,659	127,414,279
North Carolina	92,137,112	11,112,800	3,653,983	27,379	4,815,948	500	10,923,359	122,671,081
Kentucky	44,407,850	30,657,719	7,195,980	68,939	5,405,997	0	11,939,116	99,675,600
Tennessee	79,460,905	6,956,764	1,542,447	51,000	3,801,873	281,720	7,322,661	99,417,370
Wisconsin	50,344,947	18,654,747	8,224,804	47,015	5,862,596	6,882	16,149,098	99,290,088
Alabama	42,914,718	22,530,090	10,897,492	13,093	3,935,289	201,150	16,840,893	97,332,726
Louisiana	36,702,372	12,849,773	32,751,499	3,624	419,068	520,000	5,651,644	88,897,979
Missouri	48,724,068	17,615,673	6,200,263	76,623	7,486,527	2,064	7,220,335	87,325,553
Kansas	31,809,445	4,675,837	514,531	17,747	43,233,932	0	7,026,089	87,277,581
New York	66,886,024	4,254,122	4,112,401	134,540	5,282,541	17	5,079,505	85,749,152
Iowa	42,720,473	4,082,181	2,232,417	96,565	8,709,977	0	12,077,803	69,919,417
Virginia	28,052,142	8,599,641	2,840,108	53,822	17,751,825	505	9,174,635	66,472,678
Puerto Rico	12,963,854	37,469,365	12,089,978	646	960,433	1,392	1,010,506	64,496,174
Georgia	32,440,137	12,768,822	4,313,862	61,132	4,646,845	1,282	3,334,137	57,566,218
Connecticut	32,144,490	2,489,330	10,268,857	5,317	1,273,441	0	4,267,653	50,449,089
Minnesota	20,348,878	1,737,752	2,445,488	155,214	14,284,952	0	7,857,102	46,829,386
Massachusetts	22,676,428	4,434,819	3,708,366	60,141	10,529,192	47,612	2,745,651	44,202,209
Colorado	28,438,125	3,844,939	1,823,083	2,526	972,724	0	6,463,932	41,545,329
Florida	20,290,432	2,986,106	1,698,196	61,355	7,950,792	14,897	4,856,024	37,857,802
Mississippi	26,335,512	4,415,345	1,175,797	6,382	2,865,105	4,355	1,942,202	36,744,698
Oregon	13,307,350	2,037,950	846,649	61,395	10,829,614	853	9,482,359	36,566,169
Nebraska	16,783,572	528,143	419,863	8,794	838,037	0	12,990,707	31,569,117
West Virginia	7,235,428	11,475,188	3,560,682	58,406	2,815,806	0	5,486,759	30,632,270
Oklahoma	20,194,173	1,994,532	676,374	10,256	1,134,053	2,431	3,725,078	27,736,898
Maryland	8,888,050	2,149,059	5,957,575	52,178	3,387,331	800	2,602,540	23,037,533
Arizona	18,527,637	487,455	1,032,434	1,835	1,512,002	0	928,483	22,489,845
Washington	9,863,465	3,231,992	1,262,050	2,091	3,716,423	0	2,712,137	20,788,158
Delaware	8,725,818	2,632,870	184,088	7,723	1,568,009	0	3,877,073	16,995,582
New Hampshire	10,744,075	1,680,309	220,117	2,558	606,746	232	241,856	13,495,892
Utah	2,695,980	43,134	425,083	2,777	1,141,117	0	8,621,816	12,929,907
Rhode Island	9,997,176	447,193	999,152	4,124	424,072	0	259,719	12,131,435
North Dakota	731,597	39,422	41,630	532	549,767	0	9,230,342	10,593,290
New Mexico	3,846,657	78,841	80,488	112	428,251	0	4,812,461	9,246,809
Maine	2,650,811	153,037	206,393	74,503	536,560	0	1,282,284	4,903,589
Idaho	2,170,685	51,548	79,978	601	925,054	0	1,400,692	4,628,559
Nevada	1,883,643	56,673	18,097	1,285	27,799	8,180	2,444,615	4,440,291
Montana	102,939	36,638	39,313	14	1,605	227,840	2,808,061	3,216,411
Vermont	1,524,928	280,780	82,678	840	587,825	250	149,627	2,626,929
South Dakota	1,297,529	183,242	180,704	685	78,026	0	76,605	1,816,790
Wyoming	103,021	14,794	5,284	15	4,412	0	1,503,337	1,630,863
Hawaii	46,915	490	2,071	0	0	0	473,617	523,094
Virgin Islands	121,916	2,894	713	0	0	0	6,682	132,205
Alaska	35,018	13,545	4,616	5,957	29,020	0	1,272	89,428
District of Columbia	15,814	0	0	0	371	0	970	17,155
Guam	0	0	26	0	0	0	23	49
American Samoa	0	0	0	0	0	0	0	0
Northern Marianas	0	0	0	0	0	0	0	0
Total	1,950,840,492	840,332,852	279,686,495	2,211,172	337,702,602	1,781,068	664,339,613	4,076,894,294

Note: Total Transfers Off-site for Further Waste Management, including Disposal are from Section 6 of Form R.

* Transfers reported without a valid waste management code.

** Excludes metals and metal category compounds sent to POTWs.

2001 Toxics Release Inventory



Table 5. TRI Transfers to POTWs, by State, 2001 (Ordered by Total Transfers to POTWs)

State	Transfers of Metals and Metal Category Compounds Pounds	Transfers of Non-metal TRI Chemicals Pounds	Total Transfers to POTWs Pounds
Kansas	17,747	43,233,932	43,251,679
Texas	40,347	37,128,637	37,168,984
New Jersey	37,535	29,062,310	29,099,845
California	64,755	24,157,493	24,222,248
Ohio	188,609	18,415,413	18,604,023
Virginia	53,822	17,751,825	17,805,646
Michigan	247,148	15,420,424	15,667,572
Minnesota	155,214	14,284,952	14,440,166
Oregon	61,395	10,829,614	10,891,009
Massachusetts	60,141	10,529,192	10,589,332
Illinois	169,585	9,779,952	9,949,537
Iowa	96,565	8,709,977	8,806,542
Indiana	81,711	8,359,764	8,441,476
Florida	61,355	7,950,792	8,012,148
Missouri	76,623	7,486,527	7,563,150
Pennsylvania	70,521	7,381,449	7,451,970
Wisconsin	47,015	5,862,596	5,909,611
Kentucky	68,939	5,405,997	5,474,936
New York	134,540	5,282,541	5,417,082
South Carolina	56,904	5,079,704	5,136,608
North Carolina	27,379	4,815,948	4,843,327
Georgia	61,132	4,646,845	4,707,978
Alabama	13,093	3,935,289	3,948,382
Tennessee	51,000	3,801,873	3,852,873
Washington	2,091	3,716,423	3,718,514
Maryland	52,178	3,387,331	3,439,510
West Virginia	58,406	2,815,806	2,874,212
Mississippi	6,382	2,865,105	2,871,487
Arkansas	14,314	1,586,498	1,600,812
Delaware	7,723	1,568,009	1,575,732
Arizona	1,835	1,512,002	1,513,837
Connecticut	5,317	1,273,441	1,278,758
Oklahoma	10,256	1,134,053	1,144,309
Utah	2,777	1,141,117	1,143,894
Colorado	2,526	972,724	975,250
Puerto Rico	646	960,433	961,079
Idaho	601	925,054	925,655
Nebraska	8,794	838,037	846,831
Maine	74,503	536,560	611,063
New Hampshire	2,558	606,746	609,304
Vermont	840	587,825	588,665
North Dakota	532	549,767	550,299
New Mexico	112	428,251	428,363
Rhode Island	4,124	424,072	428,196
Louisiana	3,624	419,068	422,692
South Dakota	685	78,026	78,711
Alaska	5,957	29,020	34,977
Nevada	1,285	27,799	29,084
Wyoming	15	4,412	4,427
Montana	14	1,605	1,619
District of Columbia	0	371	371
American Samoa	0	0	0
Guam	0	0	0
Hawaii	0	0	0
Northern Marianas	0	0	0
Virgin Islands	0	0	0
Total	2,211,172	337,702,602	339,913,774

Note: Transfers to POTWs are from Section 6.1 of Form R.



2001 Toxics Release Inventory

Table 6. TRI On-site and Off-site Releases by State, 2001, Chemicals not including PBT Chemicals, Vanadium and Vanadium Compounds (Ordered by Total Releases)

State	On-site Releases				Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Nevada	2,701,381	82,800	785	695,622,396	698,407,362	2,425,382	700,832,744
Utah	19,205,102	1,214,052	0	642,888,604	663,307,758	835,980	664,143,738
Arizona	4,564,502	6,369	0	589,832,903	594,403,774	653,835	595,057,609
Alaska	3,187,810	76,291	14,547,011	359,038,172	376,849,284	4,874	376,854,158
Texas	102,551,766	25,989,871	77,613,184	26,051,018	232,205,840	20,809,575	253,015,415
Ohio	120,658,210	8,328,670	31,976,104	30,840,812	191,803,796	52,824,416	244,628,212
Pennsylvania	88,809,669	18,730,673	0	9,268,421	116,808,763	82,686,340	199,495,103
Indiana	77,718,206	19,847,465	1,073,284	27,337,245	125,976,200	72,593,817	198,570,016
North Carolina	115,062,742	9,878,972	0	10,585,639	135,527,353	9,792,861	145,320,215
Louisiana	75,782,085	11,787,478	37,112,744	14,865,384	139,547,691	4,755,259	144,302,950
Tennessee	79,484,511	3,027,247	5	48,722,729	131,234,492	6,165,531	137,400,023
Illinois	59,326,146	8,048,863	2,499	42,465,208	109,842,717	24,536,951	134,379,668
Alabama	75,452,863	4,683,666	86,000	37,188,925	117,411,454	11,799,000	129,210,454
Michigan	56,525,777	1,033,678	2,509,568	19,634,091	79,703,113	48,140,518	127,843,631
Florida	82,701,635	1,587,720	23,747,288	7,352,979	115,389,622	4,148,274	119,537,897
Georgia	91,771,557	8,365,583	0	11,392,722	111,529,862	2,574,136	114,103,998
New Mexico	1,065,966	39,972	37,389	94,598,509	95,741,836	2,458,183	98,200,019
Kentucky	58,505,024	2,019,123	49,284	17,630,732	78,204,163	11,543,764	89,747,927
Missouri	33,718,639	1,656,373	0	48,334,526	83,709,538	3,647,606	87,357,143
South Carolina	54,853,250	2,773,740	0	4,790,038	62,417,028	17,732,632	80,149,660
Virginia	57,151,658	6,954,718	5	5,172,963	69,279,344	8,448,773	77,728,116
West Virginia	59,381,371	3,760,313	14,397	8,184,390	71,340,471	4,566,309	75,906,780
Mississippi	36,975,943	12,924,087	10,047,848	6,453,103	66,400,981	1,738,995	68,139,976
Idaho	4,987,163	5,819,785	0	55,018,690	65,825,638	1,283,544	67,109,182
California	19,975,614	4,922,636	55,893	21,226,764	46,180,907	5,129,795	51,310,701
Montana	4,278,330	48,397	358,261	43,623,684	48,308,672	1,887,766	50,196,438
Wisconsin	25,086,483	4,028,880	0	2,721,088	31,836,451	14,130,299	45,966,750
Maryland	36,002,097	3,837,810	55,812	2,661,824	42,557,543	2,290,524	44,848,067
New York	29,507,488	6,710,007	1	3,139,504	39,357,000	4,271,040	43,628,040
Arkansas	19,932,800	3,080,536	1,586,234	5,086,567	29,686,137	11,451,271	41,137,407
New Jersey	13,794,862	3,705,319	5	262,638	17,762,824	22,188,121	39,950,945
Iowa	24,270,111	3,143,273	0	5,375,640	32,789,024	4,629,629	37,418,652
Oregon	12,902,412	2,909,102	0	18,939,459	34,750,973	1,106,245	35,857,218
Colorado	3,594,469	3,751,972	0	19,975,396	27,321,837	5,328,479	32,650,316
Minnesota	14,220,477	1,569,774	0	9,305,595	25,095,846	7,133,555	32,229,401
Kansas	14,729,193	1,149,246	559,201	8,079,777	24,517,417	6,761,678	31,279,095
Oklahoma	17,356,093	2,390,187	4,266	4,861,122	24,611,668	3,399,921	28,011,589
Nebraska	7,858,637	9,601,000	0	6,129,034	23,588,671	2,761,284	26,349,955
North Dakota	4,266,923	110,018	0	11,929,600	16,306,541	8,376,692	24,683,233
Washington	14,262,480	2,115,909	0	4,435,466	20,813,855	1,831,679	22,645,534
Wyoming	1,777,473	9,869	6,145,000	8,302,791	16,235,133	843,391	17,078,524
Puerto Rico	14,512,292	24,668	0	5,244	14,542,204	948,312	15,490,516
Delaware	6,633,803	558,504	0	636,692	7,828,999	3,730,150	11,559,149
South Dakota	1,797,077	2,412,988	696,000	5,502,008	10,408,073	75,174	10,483,247
Maine	4,643,785	3,973,335	0	719,174	9,336,294	1,025,946	10,362,240
Massachusetts	7,395,312	11,529	0	799,612	8,206,453	2,019,479	10,225,932
Connecticut	4,795,981	784,457	0	1,111	5,581,548	2,419,664	8,001,212
New Hampshire	4,495,033	10,453	0	7,270	4,512,756	184,162	4,696,919
Hawaii	2,373,451	29,493	2,064	147,378	2,552,386	425,051	2,977,437
Rhode Island	823,127	10,152	0	358	833,637	250,839	1,084,476
Virgin Islands	889,190	95,579	0	2,116	986,885	5,216	992,101
Vermont	135,956	75,571	0	255	211,782	127,738	339,520
Guam	192,094	16	0	23	192,133	23	192,156
District of Columbia	40,733	13,943	0	4,927	59,603	11	59,614
Northern Marianas	7,949	0	0	0	7,949	0	7,949
American Samoa	6,920	0	0	0	6,920	0	6,920
Total	1,674,701,620	219,722,131	208,280,132	2,997,152,316	5,099,856,200	510,899,685	5,610,755,885

Note: This table is for comparison with 1998, 1999 and 2000 data. Does not include PBT chemicals, vanadium and vanadium compounds since these chemicals were added in 2000 or their reporting definition has changed. **On-site Releases** are from Section 5 of Form R. **Off-site Releases** are from Section 6 (transfers off-site to disposal) of Form R. **Off-site Releases** include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.

2001 Toxics Release Inventory



Table 7. TRI On-site and Off-site Releases by State, 2000, Chemicals not including PBT Chemicals, Vanadium and Vanadium Compounds (Ordered by Total Releases)

State	On-site Releases				Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Nevada	3,272,089	121,757	1,049	906,957,849	910,352,744	2,376,012	912,728,756
Utah	49,554,741	1,157,483	0	830,662,116	881,374,340	587,156	881,961,495
Arizona	5,160,015	9,229	0	733,991,991	739,161,235	1,130,573	740,291,808
Alaska	3,283,143	103,478	28,481,256	367,398,896	399,266,773	4,576	399,271,349
Texas	102,606,563	33,010,721	94,783,898	33,962,877	264,364,059	27,859,802	292,223,861
Ohio	144,497,364	9,408,904	30,268,027	41,593,113	225,767,408	49,808,857	275,576,265
Pennsylvania	104,338,995	44,890,721	0	12,320,060	161,549,776	67,516,141	229,065,917
Indiana	89,217,954	18,176,042	1,026,106	28,643,477	137,063,579	58,181,239	195,244,818
Tennessee	105,265,255	3,205,122	5	41,923,109	150,393,490	7,278,998	157,672,488
North Carolina	126,013,150	9,147,087	0	9,953,357	145,113,594	10,967,017	156,080,612
Louisiana	70,269,050	12,845,530	51,663,265	13,945,136	148,722,981	4,441,857	153,164,838
Alabama	81,215,876	7,132,761	154,005	52,324,312	140,826,954	12,026,944	152,853,898
Illinois	68,187,263	6,823,730	500	42,432,377	117,443,870	32,057,114	149,500,985
Florida	87,387,707	1,799,223	34,779,577	12,552,069	136,518,576	4,254,287	140,772,863
Michigan	68,082,678	1,134,418	2,057,816	31,374,598	102,649,510	35,748,408	138,397,918
Georgia	96,204,484	8,808,046	0	13,376,610	118,389,140	4,431,110	122,820,250
New Mexico	1,180,711	45,394	895	110,599,236	111,826,236	2,624,696	114,450,932
Missouri	37,900,035	1,939,719	2	59,321,575	99,161,331	4,616,184	103,777,514
Montana	6,224,488	47,445	0	94,317,793	100,589,726	3,154,215	103,743,941
Kentucky	68,671,700	3,083,934	0	18,117,870	89,873,504	8,181,286	98,054,790
West Virginia	73,369,451	4,663,396	14,409	11,208,456	89,255,712	5,326,322	94,582,034
Idaho	5,531,861	6,219,034	0	69,888,329	81,639,224	469,055	82,108,279
Mississippi	45,045,557	13,543,917	11,281,637	9,443,769	79,314,880	1,512,407	80,827,287
Virginia	58,782,812	8,184,809	0	5,082,071	72,049,692	8,423,670	80,473,363
South Carolina	57,235,804	3,035,368	0	4,896,831	65,168,003	13,911,184	79,079,187
Oregon	15,866,674	3,727,237	0	54,117,427	73,711,338	1,214,829	74,926,167
California	23,928,286	6,079,494	48,748	30,319,022	60,375,550	10,783,998	71,159,548
New York	33,257,330	8,985,724	250	7,303,703	49,547,007	6,036,426	55,583,433
Wisconsin	29,382,307	3,562,330	0	1,816,914	34,761,551	14,613,155	49,374,707
Arkansas	26,141,558	2,218,927	1,464,573	6,016,662	35,841,720	9,767,457	45,609,177
Maryland	36,040,257	3,549,235	54,300	3,875,915	43,519,707	1,291,535	44,811,243
Iowa	23,755,781	5,597,674	0	6,236,851	35,590,306	8,164,812	43,755,118
Kansas	17,331,190	1,248,098	487,900	8,373,604	27,440,792	10,692,305	38,133,097
Minnesota	16,104,579	1,360,340	0	9,457,728	26,922,647	6,947,238	33,869,885
Oklahoma	18,724,111	2,538,154	2,460,367	4,785,460	28,508,092	3,726,247	32,234,339
Colorado	3,871,239	3,171,003	0	17,242,244	24,284,486	4,922,147	29,206,633
Washington	19,648,904	2,776,146	0	3,643,410	26,068,460	2,886,839	28,955,299
New Jersey	17,301,772	5,598,912	3	197,407	23,098,094	5,261,437	28,359,531
Nebraska	8,101,266	10,830,867	0	6,669,788	25,601,921	2,112,106	27,714,027
North Dakota	4,593,249	108,516	0	10,357,572	15,059,337	9,952,010	25,011,347
Wyoming	2,031,484	24,517	9,365,405	8,110,057	19,531,463	810,357	20,341,820
Puerto Rico	17,106,505	49,723	2	12,085	17,168,315	981,063	18,149,378
Delaware	7,792,139	864,527	0	500,360	9,157,026	3,668,672	12,825,698
Massachusetts	9,142,822	146,654	0	216,467	9,505,943	2,465,446	11,971,389
Maine	6,321,594	2,148,597	0	898,708	9,368,899	1,087,988	10,456,887
South Dakota	2,048,995	2,316,367	822,600	4,248,183	9,436,145	111,657	9,547,802
Connecticut	5,550,228	815,590	0	49,152	6,414,970	2,198,693	8,613,663
New Hampshire	5,430,938	95,206	0	59,881	5,586,025	545,612	6,131,637
Hawaii	1,054,462	1,200	7,278	31,833	1,094,773	160,070	1,254,843
Rhode Island	977,358	1,336	0	18	978,712	257,695	1,236,407
Virgin Islands	524,480	38,403	0	1,003	563,886	14,068	577,954
Vermont	119,669	178,510	0	255	298,434	136,445	434,879
Guam	168,271	0	0	405	168,676	0	168,676
District of Columbia	53,000	272	0	12,978	66,250	7	66,257
American Samoa	16,780	0	0	0	16,780	0	16,780
Northern Marianas	7,990	0	0	0	7,990	0	7,990
Total	1,910,893,962	266,570,826	269,223,873	3,740,842,968	6,187,531,629	477,699,423	6,665,231,053

Note: Does not include PBT chemicals, vanadium and vanadium compounds since these chemicals were added in 2000 or their reporting definition has changed. **On-site Releases** are from Section 5 of Form R. **Off-site Releases** are from Section 6 (transfers off-site to disposal) of Form R. **Off-site Releases** include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.



2001 Toxics Release Inventory

Table 8. TRI On-site and Off-site Releases by State, 1999, Chemicals not including PBT Chemicals, Vanadium and Vanadium Compounds (Ordered by Total Releases)

State	On-site Releases				Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Nevada	4,739,466	136,364	2,796	1,130,235,269	1,135,113,895	189,943	1,135,303,838
Utah	52,889,978	1,174,343	3,850	1,026,139,591	1,080,207,762	581,122	1,080,788,884
Arizona	5,823,508	7,091	15	948,044,941	953,875,555	820,698	954,696,253
Alaska	2,694,250	96,038	27,046,256	293,201,325	323,037,869	4,452	323,042,321
Texas	113,278,705	34,520,944	90,740,074	51,472,257	290,011,980	25,326,485	315,338,465
Ohio	149,161,826	8,621,614	27,632,086	67,242,820	252,658,346	48,271,879	300,930,225
Pennsylvania	110,447,093	50,303,499	0	13,173,413	173,924,004	55,941,321	229,865,325
Indiana	98,498,338	7,232,724	890,265	31,017,629	137,638,956	54,960,550	192,599,506
Illinois	85,980,052	6,704,675	1,200	44,286,462	136,972,389	26,105,260	163,077,649
New Mexico	1,617,277	59,991	315	158,700,186	160,377,769	2,376,675	162,754,444
North Carolina	124,140,668	8,768,592	0	18,868,494	151,777,754	6,640,380	158,418,134
Tennessee	108,543,084	2,920,821	0	35,873,341	147,337,246	7,641,609	154,978,855
Louisiana	68,534,628	15,266,088	48,038,281	16,771,299	148,610,296	4,737,250	153,347,546
Florida	94,186,282	2,327,965	32,769,162	12,201,817	141,485,226	4,420,526	145,905,752
Alabama	83,173,798	7,301,494	126,505	44,191,213	134,793,010	8,302,933	143,095,943
Michigan	74,500,972	1,184,413	2,571,942	16,137,208	94,394,535	42,308,443	136,702,978
Georgia	104,236,517	8,985,307	0	13,478,470	126,700,294	3,709,055	130,409,349
Montana	6,481,382	36,050	0	107,015,260	113,532,692	445,458	113,978,150
Kentucky	76,085,845	2,720,459	0	14,743,424	93,549,728	6,761,986	100,311,714
West Virginia	77,227,826	7,886,253	10	10,690,501	95,804,590	3,930,287	99,734,877
Missouri	41,238,051	3,490,265	0	46,608,579	91,336,895	4,521,293	95,858,188
Virginia	61,247,008	6,156,700	0	5,241,895	72,645,603	10,296,022	82,941,625
South Carolina	58,244,279	3,499,298	0	11,463,157	73,206,734	9,725,716	82,932,450
Idaho	6,420,441	9,138,491	0	62,705,871	78,264,803	387,357	78,652,160
Mississippi	44,968,977	14,638,316	8,146,762	8,240,814	75,994,869	1,449,746	77,444,615
New York	36,578,262	9,833,778	250	12,172,055	58,584,345	5,719,496	64,303,841
Oregon	17,422,882	3,406,800	0	40,977,088	61,806,770	1,072,212	62,878,982
California	26,332,369	4,848,411	47,992	22,686,986	53,915,758	8,324,807	62,240,565
Wisconsin	37,208,775	3,542,447	0	2,588,563	43,339,785	14,893,631	58,233,416
Iowa	31,638,469	3,972,699	0	7,561,585	43,172,753	4,646,555	47,819,308
Maryland	37,628,809	2,845,950	34,700	2,442,864	42,952,323	1,128,969	44,081,292
Kansas	18,617,193	1,208,016	1,170,464	8,787,712	29,783,385	13,955,236	43,738,621
Arkansas	28,125,599	1,866,085	775,088	5,188,935	35,955,707	3,865,021	39,820,728
Oklahoma	18,501,057	3,063,783	2,566,398	6,608,850	30,740,088	4,043,878	34,783,966
Minnesota	16,978,512	1,755,879	0	9,047,916	27,782,307	4,182,826	31,965,133
New Jersey	17,165,701	5,426,472	4	535,613	23,127,790	4,548,888	27,676,678
Washington	20,492,849	3,120,932	0	2,191,086	25,804,867	1,593,507	27,398,375
Nebraska	8,611,305	11,346,806	0	5,025,315	24,983,426	1,924,678	26,908,104
Colorado	4,151,341	3,188,238	84,473	13,458,287	20,882,339	5,031,881	25,914,220
North Dakota	5,342,265	225,144	0	9,097,983	14,665,392	10,429,010	25,094,402
Wyoming	2,361,082	18,388	8,082,205	8,133,251	18,594,926	640,939	19,235,865
Puerto Rico	16,661,039	80,784	0	169,866	16,911,689	740,564	17,652,253
South Dakota	2,401,363	1,582,988	0	7,641,103	11,625,454	457,940	12,083,394
Delaware	6,659,017	1,197,762	0	462,534	8,319,313	2,995,468	11,314,781
Massachusetts	8,846,914	167,684	0	8,849	9,023,447	2,261,549	11,284,996
Maine	7,559,924	910,405	0	787,171	9,257,500	932,958	10,190,458
Connecticut	4,816,085	1,013,854	0	21,201	5,851,140	1,938,715	7,789,855
New Hampshire	5,241,755	125,327	0	73,982	5,441,064	444,497	5,885,561
Hawaii	1,584,809	2,721	5,070	38,163	1,630,763	50,338	1,681,101
Rhode Island	1,070,736	1,375	0	5	1,072,116	299,245	1,371,361
Virgin Islands	697,898	45,827	0	1,791	745,516	1,744	747,260
Guam	630,157	25	0	67	630,249	0	630,249
Vermont	153,411	179,756	0	1,010	334,177	192,352	526,529
District of Columbia	79,000	44	0	0	79,044	18,052	97,096
American Samoa	16,127	1	0	0	16,128	0	16,128
Northern Marianas	3,387	25	0	0	3,412	0	3,412
Total	2,037,938,343	268,156,201	250,736,163	4,353,455,067	6,910,285,773	426,191,402	7,336,477,176

Note: Does not include PBT chemicals, vanadium and vanadium compounds since these chemicals were added in 2000 or their reporting definition has changed. **On-site Releases** are from Section 5 of Form R. **Off-site Releases** are from Section 6 (transfers off-site to disposal) of Form R. **Off-site Releases** include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.

2001 Toxics Release Inventory



Table 9. TRI On-site and Off-site Releases by State, 1998, Chemicals not including PBT Chemicals, Vanadium and Vanadium Compounds (Ordered by Total Releases)

State	On-site Releases				Total On-site Releases Pounds	Off-site Releases	Total On- and Off-site Releases Pounds
	Total Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	Releases to Land Pounds		Transfers Off-site to Disposal* Pounds	
Nevada	4,355,668	240,891	1,403	1,245,153,756	1,249,751,718	75,779	1,249,827,497
Arizona	10,106,674	6,233	4	1,041,016,239	1,051,129,150	810,371	1,051,939,521
Utah	64,760,124	1,278,675	0	483,291,935	549,330,734	522,339	549,853,073
Ohio	161,042,595	8,011,235	28,758,724	89,889,241	287,701,795	47,222,278	334,924,073
Texas	122,577,185	31,823,819	91,455,308	50,166,797	296,023,109	22,521,722	318,544,831
Indiana	185,396,883	3,205,967	1,040,393	32,671,319	222,314,562	52,206,593	274,521,155
New Mexico	2,559,479	57,784	0	249,779,309	252,396,572	5,398,376	257,794,948
Alaska	3,013,317	97,638	22,224,256	208,275,097	233,610,308	5,071	233,615,379
Pennsylvania	97,114,332	50,021,735	80,401	10,952,669	158,169,137	53,962,443	212,131,580
Illinois	91,563,769	7,152,127	250	47,328,871	146,045,017	21,723,583	167,768,600
Louisiana	78,029,453	9,983,625	54,817,278	14,667,661	157,498,017	3,652,521	161,150,538
North Carolina	118,467,872	7,878,518	0	19,211,049	145,557,439	5,375,076	150,932,515
Tennessee	106,730,136	3,779,454	3,810,800	27,025,252	141,345,642	6,416,440	147,762,082
Alabama	83,599,108	6,233,656	45,005	47,008,334	136,886,103	8,818,359	145,704,462
Florida	91,483,883	2,094,059	27,624,920	14,698,696	135,901,558	3,168,467	139,070,025
Michigan	73,235,995	856,864	3,459,889	18,494,137	96,046,885	39,844,090	135,890,975
Georgia	95,702,643	8,680,773	0	13,642,178	118,025,594	2,532,102	120,557,696
Montana	5,209,186	94,149	0	104,796,970	110,100,305	1,348,074	111,448,379
Idaho	6,627,188	6,538,671	0	96,991,563	110,157,422	543,417	110,700,839
West Virginia	75,870,976	8,043,580	38	11,325,149	95,239,743	8,200,637	103,440,380
Missouri	42,915,863	5,038,299	0	49,718,696	97,672,858	4,705,943	102,378,801
Kentucky	76,771,222	2,766,804	0	17,196,480	96,734,506	5,628,485	102,362,991
South Carolina	59,278,760	4,571,269	0	32,621,448	96,471,477	4,895,442	101,366,919
Virginia	63,553,252	6,019,784	0	4,268,437	73,841,473	7,755,827	81,597,300
Mississippi	45,293,515	14,067,162	6,742,506	9,387,710	75,490,893	1,254,276	76,745,169
New York	38,458,036	11,592,838	250	13,314,129	63,365,253	5,112,084	68,477,336
Wisconsin	39,374,644	5,626,804	0	3,226,128	48,227,576	14,705,283	62,932,859
California	28,672,534	4,023,331	86,970	21,417,157	54,199,992	5,356,703	59,556,695
Iowa	34,908,749	3,708,124	0	6,846,530	45,463,403	5,194,364	50,657,767
Oregon	16,586,621	3,669,395	0	25,442,301	45,698,317	1,690,330	47,388,647
Kansas	24,708,081	847,930	1,352,672	8,106,790	35,015,473	9,108,092	44,123,565
Arkansas	27,472,730	1,842,844	1,248,950	4,283,786	34,848,310	4,588,044	39,436,354
Maryland	33,055,896	2,547,872	45,000	2,138,333	37,787,101	1,141,164	38,928,265
Oklahoma	20,242,004	2,308,757	4,472,289	7,509,496	34,532,546	3,883,600	38,416,146
Washington	23,234,600	3,125,759	0	3,926,157	30,286,516	3,102,262	33,388,778
Minnesota	17,145,464	1,424,003	0	9,482,117	28,051,584	3,299,953	31,351,537
Colorado	4,930,124	2,392,398	3,496,575	14,972,314	25,791,411	5,140,111	30,931,522
Nebraska	10,528,235	10,669,402	0	4,168,363	25,366,000	3,681,997	29,047,997
New Jersey	17,674,480	6,640,457	4	589,057	24,903,998	4,009,999	28,913,997
North Dakota	5,251,136	102,305	0	8,723,604	14,077,045	11,377,177	25,454,222
South Dakota	2,721,215	1,022,862	0	18,704,510	22,448,587	222,220	22,670,807
Wyoming	4,002,628	18,912	7,656,805	9,752,616	21,430,961	1,190,239	22,621,200
Puerto Rico	16,665,894	80,698	0	164,298	16,910,890	1,000,136	17,911,026
Delaware	9,753,957	1,125,628	0	901,180	11,780,765	3,818,022	15,598,787
Massachusetts	8,943,607	201,813	0	45,104	9,190,524	2,690,726	11,881,250
Connecticut	6,303,721	995,473	0	38,105	7,337,299	2,950,873	10,288,172
Maine	6,778,417	1,120,939	0	861,519	8,760,875	1,177,490	9,938,365
New Hampshire	6,341,429	127,389	0	103,532	6,572,350	441,690	7,014,040
Rhode Island	1,964,364	1,836	0	5	1,966,205	306,443	2,272,648
Hawaii	1,995,686	2,057	3,849	33,634	2,035,226	85,903	2,121,129
Virgin Islands	1,073,624	37,872	0	1,502	1,112,998	29,001	1,141,999
Vermont	190,659	152,199	0	1,005	343,863	172,126	515,989
Guam	157,106	1,275	0	0	158,381	0	158,381
District of Columbia	68,950	6	0	8,800	77,756	5	77,761
American Samoa	13,896	1	0	0	13,897	0	13,897
Northern Marianas	3,066	20	0	0	3,086	0	3,086
Total	2,174,480,631	253,953,970	258,424,539	4,104,341,065	6,791,200,204	404,063,746	7,195,263,950

Note: Does not include PBT chemicals, vanadium and vanadium compounds since these chemicals were added in 2000 or their reporting definition has changed. **On-site Releases** are from Section 5 of Form R. **Off-site Releases** are from Section 6 (transfers off-site to disposal) of Form R. **Off-site Releases** include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

* Off-site releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.



2001 Toxics Release Inventory

Table 10. TRI On-site and Off-site Releases by State, 1988 and 1998-2001 (Ordered by Total Releases, 2001)

State	Total On-site and Off-site Releases				
	1988 Pounds	1998* Pounds	1999* Pounds	2000* Pounds	2001* Pounds
Texas	317,750,846	172,764,186	169,019,688	150,863,359	130,161,517
Indiana	181,006,115	190,823,797	109,749,954	103,998,513	106,509,510
Pennsylvania	133,668,247	82,574,138	81,337,314	88,028,428	97,526,374
Ohio	200,150,264	125,842,440	116,070,400	108,382,963	90,503,277
Louisiana	128,650,462	91,648,691	78,931,515	80,039,572	70,261,272
Illinois	137,617,378	82,363,263	79,319,262	77,246,709	67,793,360
Tennessee	125,982,339	84,846,634	88,512,069	81,158,306	62,833,848
Alabama	109,514,008	75,938,708	73,603,097	66,722,803	61,046,155
Michigan	139,217,419	72,992,064	63,604,392	52,356,439	59,888,629
Arizona	61,546,345	50,910,305	47,746,980	181,863,964	52,682,488
South Carolina	65,776,497	50,245,262	55,823,738	51,624,240	51,980,911
Utah	122,205,520	93,257,547	77,160,274	101,543,627	48,389,716
Missouri	82,152,829	44,297,607	43,427,951	46,044,393	43,037,304
Mississippi	58,460,109	42,664,481	41,547,086	43,051,508	36,314,681
North Carolina	123,986,249	49,198,932	46,671,259	40,804,299	35,824,999
Georgia	85,153,116	47,499,696	46,436,053	44,833,112	35,292,498
Arkansas	40,821,858	38,643,064	38,768,553	44,833,959	33,482,252
Virginia	112,214,913	39,562,452	39,437,127	34,566,539	31,578,581
Kentucky	64,658,557	31,126,621	31,130,598	27,824,015	28,564,226
New Jersey	46,710,468	11,320,976	11,289,235	11,265,252	26,786,636
Florida	32,691,179	30,476,858	29,511,881	31,792,671	26,317,695
Wisconsin	61,055,945	33,747,246	31,665,333	28,964,812	25,451,864
Oregon	21,215,702	27,315,031	24,941,465	24,048,316	21,893,479
Iowa	42,341,892	24,387,962	24,955,641	24,827,838	19,238,409
Montana	33,466,759	44,207,723	45,743,353	46,571,684	18,235,000
California	107,885,862	23,932,226	23,157,265	23,387,176	16,664,659
New York	98,478,642	21,678,650	18,821,081	17,497,882	13,574,883
Minnesota	55,300,784	14,628,940	14,296,686	15,346,804	13,544,847
Kansas	30,205,576	17,528,879	20,139,459	16,846,453	12,825,713
Oklahoma	30,456,453	13,867,429	13,609,137	13,631,087	12,270,363
Nebraska	16,683,020	9,884,467	8,570,539	10,306,429	12,214,262
Washington	30,499,642	24,135,618	17,257,139	16,574,343	11,669,958
West Virginia	39,266,632	16,284,015	11,768,453	10,233,153	9,002,575
Idaho	7,316,493	12,698,307	14,634,818	12,975,144	8,570,132
Maryland	19,607,472	8,739,151	9,183,618	10,566,370	7,729,571
Delaware	8,658,072	5,777,582	5,238,646	5,566,738	5,169,960
Maine	15,517,845	6,596,536	5,929,343	6,284,338	5,007,867
Puerto Rico	12,856,111	6,573,399	5,153,647	5,284,464	4,835,361
Massachusetts	32,108,744	6,482,989	4,940,912	4,755,797	4,474,523
Connecticut	37,902,969	6,011,334	4,468,665	4,483,087	3,590,290
Nevada	2,340,068	3,689,687	5,377,604	4,066,087	3,194,475
Colorado	15,388,447	3,114,635	3,035,387	2,796,279	2,509,900
New Hampshire	13,838,392	2,279,086	2,441,069	2,255,462	1,179,021
South Dakota	2,370,743	1,412,646	1,078,885	1,197,767	1,058,415
North Dakota	1,162,397	1,170,745	1,080,667	824,742	924,707
Rhode Island	7,782,238	1,604,539	1,154,455	1,058,325	904,721
Virgin Islands	2,592,512	916,521	522,351	413,529	807,275
Wyoming	1,978,542	1,175,023	1,336,412	1,213,982	783,294
New Mexico	29,299,428	23,274,161	19,556,655	513,921	574,334
Alaska	3,714,069	314,358	208,583	263,581	520,187
Hawaii	846,055	306,151	267,212	413,374	382,866
Vermont	1,656,699	224,819	191,026	142,589	127,996
District of Columbia	750	11,511	18,096	13,062	17,411
American Samoa	0	0	0	0	0
Guam	0	0	0	0	0
Total	3,153,729,673	1,872,969,088	1,709,842,028	1,782,169,286	1,435,724,244

Note: Does not include delisted chemicals, chemicals added in 1990, 1991, 1994 and 1995, aluminum oxide, ammonia, hydrochloric acid, PBT chemicals, sulfuric acid, vanadium and vanadium compounds. **On-site Releases** are from Section 5 of Form R. **Off-site Releases** are from Section 6 (transfers off-site to disposal) of Form R. **Off-site Releases** include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

* Includes amounts for original (manufacturing) industries only for 1998-2001. One facility, Phelps Dodge Miami of Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 2001 and previous years has been included in SIC 10 and not in the manufacturing SIC code 33 for the purpose of this analysis.